

Amendment Under 37 C.F.R. §1.111  
Application No. 10/529,547  
Attorney Docket No. 052344

### **AMENDMENTS TO THE CLAIMS**

**This listing of claims replaces all prior versions and listings of claims in the application.**

Claim 1 (Currently Amended). A method for manufacturing an anisotropic magnet powder characterized in that the method comprises:

a high-temperature hydrogenation process of holding an RFeB-based alloy containing a rare earth element (hereinafter referred to as "R"), boron (B) and iron (Fe) as main ingredients in a treating atmosphere under a first treating pressure (hereinafter referred to as "P1") of which a hydrogen partial pressure ranges from 10 to 100 kPa and at a first treating temperature (hereinafter referred to as "T1") which ranges from 953 to 1133 K;

a structure stabilization process of holding said RFeB-based alloy after said high-temperature hydrogenation process in a treating atmosphere under a second treating pressure (hereinafter referred to as "P2") of which a hydrogen partial pressure is 10 kPa or more and at a second treating temperature (hereinafter referred to as "T2") which ranges from 1033 to 1213 K such that one of condition  $T2 > T1$  and  $P2 > P1$  is satisfied;

a controlled evacuation process of holding said RFeB-based alloy after said structure stabilization process in a treating atmosphere and carrying out dehydrogenation under a third treating pressure (hereinafter referred to as "P3") of which a hydrogen partial pressure ranges from 0.1 to 10 kPa and at a third treating temperature (hereinafter referred to as "T3") which ranges from 1033 to 1213 K such that the condition  $P3 < P2$  is satisfied, and

a forced evacuation process of removing residual hydrogen (H) from said RFeB-based alloy after said controlled evacuation process.

Claim 2 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 1, wherein said structure stabilization process is a process satisfying one of conditions of  $P_2 \geq P_1$ ,  $T_2 > T_1$  and  $P_2 > P_1$ ,  $T_2 \geq T_1$ .

Claim 3 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 1, wherein said structure stabilization process is a process in which the upper limit of said  $P_2$  is 200 kPa.

Claim 4 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 1, further comprising a cooling process of cooling said RFeB-based alloy after said controlled evacuation process and before said forced evacuation process.

Claim 5 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 1, further comprising a low-temperature hydrogenation process of holding said RFeB-based alloy in a hydrogen atmosphere of which the temperature is not more than 873 K before said high-temperature hydrogenation process.

Claim 6 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 1, further comprising

a mixing process of mixing a diffusion material containing at least one kind of elements (hereinafter referred to as "R1") consisting of dysprosium (Dy), terbium (Tb), neodymium (Nd), praseodymium (Pr), and lanthanum (La) into said RFeB-based alloy which is obtained after one

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of said controlled evacuation process and said forced evacuation process, thereby obtaining a mixture powder, and

a diffusion heat treatment process of heating said mixture powder, thereby diffusing said R1 on a surface and into an inside of said RFeB-based alloy.

Claim 7 (Original). The method for manufacturing an anisotropic magnet powder as claimed in claim 6, further comprising a dehydrogenation process of removing hydrogen from said mixture powder before said diffusion heat treatment process where hydrogen residues in said mixture powder after said mixing process.